

POLOSIN, V.A., dots., kand. khim. nauk; TARASOVA, N.N., assistant, kand. khim. nauk.

Interaction of urea with sodium nitrate in water solutions [with summary in English]. Izv. TSKhA no.6:183-190 '58. (MIRA 12:1)
(Urea) (Sodium nitrate)

TARASOVA, N. N.

Tarasova, N. N.

"The interaction of urea with the nitrate and chloride of sodium."
Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev.
Moscow, 1956 (Dissertation for the degree of Candidate in Chemical Science)

Knizhnaya letopis'
No. 25, 1956. Moscow

TARASOVA, N.N.

Solubility polytherm in the ternary system urea-sodium nitrate-water at -10.55 to $+40^\circ$. V. A. Pukhin and N. N. Tarasova. *Doklady Akad. Nauk SSSR* 1956, No. 22, 368-4. A visual polythermic method was used for measuring sol. at temp. range -10.55 to $+40^\circ$. In this temp. interval, there takes place a chem. reaction and formation of a chem. compd. The complete freezing of the system occurs at -10.55° . The cryohydric point of urea + H_2O at concn. of urea 32.8% is -11.3° , which is in agreement with the literature data. Besides the cryohydrate point on the urea branch was observed the transition, from one modification of urea to the other at concn. 54.8% and $+24^\circ$. The cryohydrate point of the binary system $NaNO_3 + H_2O$ (38.0%) is at -17.5° . The hydrated compd. and polymorphic modifications of $NaNO_3$ in the investigated temp. interval were not detected. The ternary system $CO(NH_2)_2$ - $NaNO_3$ - H_2O has 6 fields of crystn. representing one of ice, 3 fields of urea (α , β , and γ modifications), one of $NaNO_3$ and one of the compd. The system has also 3 triple points of crystn.: ice-urea-compd.; ice-compd.- $NaNO_3$; and urea-compd.- $NaNO_3$. The two first were observed at the investigated temp. and the last one at the higher temp.

M. Charmandarian

TARASOVA, N.N.; POTANIN, N.V.; SHOKINA, N.I.; GRIN'-YATSENKO, Z.M.;
ZINGER, T.I.

Clinical aspects and treatment of coli dyspepsia in infants. Sov.
med. 24 no.6:54-59 Je '60. (MIRA 13:9)

1. Iz kafedry gosspital'noy pediatrii (sav. - deystvitel'nyy chlen
AMN SSSR prof. A.F. Tur) Leningradskogo pediatricheskogo meditsin-
skogo instituta na baze detskogo otdeleniya Oblastnoy klinicheskoy
bol'nitsy (glavnyy vrach - zaslushennyy vrach RSFSR A.P. Yegorova).
(ESCHERICHIA COLI) (DYSPEPSIA)

TARASOVA, N.N.; TARASOV, O.F.

Use of the new Russian antibiotic mycerin in the treatment of
so-called coli enterites in infants. *Pediatrics* 38 no.1:24-27
'60. (MIRA 13:10)
(ANTIBIOTICSO (ESCHERICHIA COLI) (ENTERITIS)

TARASOVA, N.N.; TARASOV, O.F.

Use of a new Soviet antibiotic mycerin in the treatment of
so-called "colienteritis" in small children. *Pediatria* 38
no.4:24-27 Apr '60. (MIRA 16:7)

1. Iz detskogo otdeleniya Leningradskoy oblastnoy klinicheskoy
bol'nitsy (glavnyy vrach A.P.Yegorova) i kafedry gosspital'noy
pediatrii (zav.-deystvitel'nyy chlen AMN SSSR, zasluzhennyy
deyatel' nauki prof. A.F.Tur) Leningradskogo pediatricheskogo
meditsinskogo instituta.
(ANTIBIOTICS) (ESCHERICHIA COLI)

TARASOVA, N. V. (Cand. Tech. Sci.)

Investigation on Critical Thermal Loadings and Heat Transfer from the Walls of Tubes to Water, and Steam-water mixture."

report presented at sci. and tech. session on Heat Exchange during Change of Aggregate State of Matter (By Comm. on High Steam Conditions, Power Inst. AS USSR, and Inst. Thermal Engineering, AS UkrSSR), Kiev, 23-28 Sep 57.

All-Union ~~Thermal~~ Technical Inst.

TARASOVA, S. L.

AUTHOR: None given.

96-1-30/31

TITLE: New Scientific Research Works of the All-Union Thermo-technical Institute (Novyye nauchno-issledovatel'skiye raboty vsesoyuznogo teploekhnicheskogo instituta)

PERIODICAL: Teploenergetika, 1958, Vol.5, No.1, pp. 93 - 94 (USSR).

ABSTRACT: This note briefly summarises the following three recent investigations:

A.A. Armand - Investigations on Unstable Heat Exchange. This is an investigation of the behaviour of heat exchangers under transient conditions. It considers the case of sudden changes in the temperature of heat-transfer medium at the inlet, in the temperature of the heating medium and in the rate of flow of heat-transfer medium.

N.V. Tarasova, A.A. Armand and A.S. Kon'kov - An Investigation on Heat Transfer in a Tube During Boiling of Underheated Water and a Steam-water Mixture. This gives an account of work carried out in 1956-57 in a vertical tube with rising and falling flows.

A.A. Armand, N.V. Tarasova and A.S. Kon'kov - An Investigation on Heat Transfer Near the Critical Condition. This is an account of experimental work carried out in 1953-55 at pressures ranging from 227 - 270 atm. It was established that in the

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96-1-30/31

new Scientific Research Works of the All-Union Thermo-technical
Institute.

super-critical region the heat-transfer coefficient depends
on the temperature and is at a maximum at approximately the
same temperatures as give maximum values of specific heat
at constant pressure and Prandtl number. The usual formula
for heat-transfer from the wall to the steam is not valid in
the range of conditions examined.
There is 1 figure.

AVAILABLE: Library of Congress.

Card 2/2

TARASOVA, N. V.

24(8) 22

PHASE I BOOK EXPLOITATION

SOV/3459

Moscow. Vsesoyuznyy teploekhnicheskii institut

Teploobmen pri vysokikh teplovykh nagruzkakh i drugikh spetsial'nykh usloviyakh; sbornik statey (Heat Exchange Under High Thermal Loads and Other Special Conditions; Collection of Articles) Moscow, Gosenergoizdat, 1959. 135 p. 4,000 copies printed.

Ed. (Title page): A. A. Armand; Ed. (inside book): I. K. Korikovskiy; Tech. Ed.: G. I. Matveyev.

PURPOSE: The book is intended for personnel of scientific research institutes, planning and design organizations, and for power engineers.

COVERAGE: This collection of 9 articles presents the results of research conducted at the All-Union Heat Engineering Institute. Problems of heat exchange under high pressure and other special conditions are analyzed. Attention is devoted to special cases such as heat exchange from wall to water, including cases of ordinary and surface boiling; heat transfer to steam and water under supercritical parameters; heat exchange from pipe wall to gas under high pressure; and the hydraulic resistance of a heated tube. References are given at the end of each article.

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Heat Exchange Under High (Cont.)

SOV/3459

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Heat Exchange Under High (Cont.)

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6. Dyadyakin B. V., and V. L. Lel'chuk. Experimental Investigation of Heat Emission From Tube Wall to Gas at High Temperature 69
7. Lel'chuk, V. L., and B. V. Dyadyakin. Experimental Determination of Hydraulic Resistance With Turbulent Flow of Air in a Heated Tube 91
8. Doroshchuk, V. Ye., and F. P. Frid. Investigation of Heat Emission in Annular Channels 101
9. Armand A. A. Calculation of Transient Processes in Heat Exchangers 113

AVAILABLE: Library of Congress (QC320.M68)

Card 3/3

TM/lab
5-4-60

RADIN, Yu.P.; TARASOVA, N.V.

Temperature dependence of the dielectric permeability of
dielectric substance in the centimeter wave band. Izv.vys.uch.zav.;
fiz. no.4:87-90 '62. (MIRA 15:9)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.
Chernyshevskogo.
(Dielectric constants) (Microwaves)

KHRISTOFOROV, Boris Sergeyevich; BUSEV, A.I., prof., otv. red.;
TARASOVA, N.V., red.; LOKSHINA, O.A., tekhn. red.

[Determination of the mineral (phase) composition of
tungsten ores] Veshchestvennyi (ratsional'nyi) analiz
vol'framovykh rud. Novosibirsk, Izd-vo Sibirskogo otd-
niia AN SSSR, 1963. 60 p. (MIRA 17:4)

KLETENIK, Yu.B., kand. khim. nauk, otv. red.; TARASOVA, N.V.,
red.

[Chemical analysis of nonferrous and rare metals] Khimicheskii analiz tsvetnykh i redkikh metallov. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia AN SSSR, 1967. 158 p. (MIRA 18:1)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Khimiko-metallurgicheskii institut.

GANTEMUROV, I.I.; BASHIROVA, F.N.; TARASOVA, N.V., red.

[Scientific bases for studying soil conditions in
cities] Nauchnye osnovy izucheniia pochvennykh uslovii
v gorodakh. Novosibirsk, Red.-izd. otdel Sibirskogo
otd-niia AN SSSR, 1964. 135 p. (MIRA 18:1)

GORBACHEV, T.F., otv. red.; TARASOVA, N.V., red.

[Development of mineral deposits] Razrabotka mestorozhdenii poleznykh iskopaemykh. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia AN SSSR, 1964. 227 p.

(MIRA 18:6)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. 2. Chlen-korrespondent AN SSSR (for Gorbachev).

TARASOVA N.V., SVERDLOV, L.M.

Vibrational spectra of nonsaturated hydrocarbons. Part 13. Opt. 1
spaktr. 18 no.4:587-591 Ap '65. (MIRA 18:8)

KIRENSKIY, L.V.; UROZHI, A.I.; LAPTEV, D.P.; TARASOVA, N.V.,
1965.

[Temperature magnetic hysteresis in ferromagnetics and
ferrite-] Temperaturnyi magnitnyi gisterazis ferro-
magnetikov i ferritov. Novosibirsk, Red.-izd. otdel.
Sibirskogo otd-nia AN SSSR, 1965. 157 p. (MIRA 18:11)

SHCHERBACHOV, T.N., (1967); *Tr. Vsesoyuzn. nauch. konf. po
biokh. i med. khim.*, 1967, 1, 10-11.

Carotenoids are found in the membranes of the cell. The
pigments in actinomycetes are carotenoids and xanthophylls.
aureoverticillatus. Dokl. Akad. Nauk SSSR, 1967, 177, 10-11.

1. Institute of Microbiology, USSR Academy of Sciences, Moscow.

PETROV, D.F.; TARASOVA, N.V., red.

[Genetically controlled apomixy] Geneticheskiĭ reguli-
ruemyi apomiksis. Novosibirsk, Red.-izdatel'skii otdel
Sibirskogo otd-niia AN SSSR, 1964. 186 p. (MIRA 17:9)

LCFATER, Boris Alekseyevich ALABYSHEV, A.F., retsenezent,
SOBOLEVSKIY, K.M., retsenezent; KRASILENKO, V.A.,
retsenezent; KRYUKOV, F.A., av. red.; TARASOVA, L.N.,
red.

[Conductometry; measurement of the electrical conductivity
of electrolytes] Konduktometriya; izmerenie elektroprovod-
nosti elektrolitov. Novosibirsk, Redaktsionno-izdatelskii
otdel Sibirskogo otdel'nii AN SSSR, 1964. 278 p.
(MIRA 1963)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya
AN SSSR (for Kryukov). 2. Leningradskiy politekhnicheskii
institut im. M.I. Kalinina (for Alabyshev). 3. Institut
avtomatiki i elektrometrii Sibirskogo otdeleniya AN SSSR
(for Sobolevskiy, Krasilenko).

I 49778-65 EPF(c)/ENT(1)/ENT(m) Pr-4 IJP(o) RM
 ACCESSION NR: AR5012237 UR/0058/65/000/003/D015/D015

SOURCE: Ref. zh. Fizika, Abs. 3D103

AUTHORS: Borisov, M. G.; Prokof'yeva, N. I.; Sverdlov, L. M.; Tarasova, N. V.;
Finkel', A. G.

TITLE: Investigation of intensities of vibrational spectra of molecules of different classes

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 1964, 199-203

TOPIC TAGS: vibrational spectrum, electro optical parameter, infrared spectrum, spectral intensity, hydrocarbon molecule

TRANSLATION: The intensities and polarizations of vibrational spectra and the electronic parameters were calculated for 26 molecules: CH_4 , C_2H_6 , C_3H_4 , C_3H_6 , C_4H_6 , C_4H_8 , C_6H_{12} , olefins and their isotopic substitutes. The intensities of the infrared spectra and electro-optical parameters are calculated for 15 molecules: C_3H_4 , C_3H_6 , C_4H_6 , C_4H_8 , C_5H_{10} , C_6H_{12} , olefins and their deuterium substitutes. The

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L 49778-65

ACCESSION NR: AR5012237

experimental data on the intensities, obtained by the authors, were used for the calculations.

SUB CODE: OP, OC

ENCL: 00

B5B
Card 2/2

FINKEL', A.G.; TARASOVA, N.V.; SVERDLOV, L.M.

Experimental and theoretical study of the absolute intensities of
infrared spectra of hydrocarbons in the gaseous phase. Opt. i
spektr. 18 no.5:928-930 My '65. (MIRA 18:10)

L 1705-66 EWT(m)/EPF(c)/EWP(j)/T RM

ACCESSION NR: AP5012638

UR/0051/65/018/005/0928/0930

535.343 = 15.4

AUTHOR: Finkel', A. G.; Tarasova, N. V.; Sverdlov, L. M.

TITLE: Experimental and theoretical investigation of absolute intensities in the infrared spectra of hydrocarbons in the gas phase. III. 1,3-butadiene

SOURCE: Optika i spektroskopiya, v. 18, no. 5, 1965, 928-930

TOPIC TAGS: IR spectrum, butadiene, deuterium compound, line intensity, conjugated polyolefin hydrocarbon, electrooptic effect, absorption band

ABSTRACT: This is a continuation of earlier investigations (Opt. i spektr. v. 15, 195, 1963 ff) of the infrared bands of certain naphthenic and olefinic hydrocarbons. The present work is devoted to a measurement of the absolute intensities of the infrared bands of trans-1,3-butadiene, and to a calculation, on the basis of the experimental data obtained, of a set of electro-optical parameters characterizing the polar properties of the bonds in dienes with conjugated C=C double bonds, in order to determine the effect of conjugation on bond polarity. The absorption spectrum of k,3-butadiene was recorded with an infrared spectrometer using LiF, NaCl, and KBr prisms. The Wilson-Wells extrapolation method (J. Chem. Phys. v. 14, 578, 1946) was used to determine the absolute intensities of the absorption bands. The

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L 1705-66

ACCESSION NR: AP5012638

experiment is briefly described. A table is presented of the absolute intensities of the infrared bands of trans-1,3-butadiene and C_4D_6 . The results show that the C=C double bond to the ends of which different functional groups are attached, is characterized by considerable polarity. The table lists also the calculated intensities of the infrared spectra of trans-1,3-hexadeuterobutadiene, calculated from the electro-optical parameters in this work. The calculation correctly accounts for the intensities of the IR bands at 2335, 2210, 1523, and 718 cm^{-1} and the medium intensity of the 2270 and 380 cm^{-1} bands. The intensities calculated for the bands in the 1000--1050 region are apparently too low. Orig. art. has: 1 formula and 1 table.

ASSOCIATION: none

SUBMITTED: 25Apr64

ENCL: 00

SUB CODE: OP

NR REF SOV: 009

OTHER: 003

Card 2/2

DP

L 45628-65 EWT(1)/EWP(m) Pd-1

ACCESSION NR: AP5006474

8/0294/65/003/001/0115/0123

AUTHOR: Tarasova, N. V.; Leont'yev, A. I.

TITLE: Hydraulic resistance in the flow of a steam-water mixture in a heated vertical tube

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 1, 1965, 115-123

TOPIC TAGS: hydraulic resistance, water steam mixture, pressure drop, friction drop

ABSTRACT: In view of the lack of published data applicable in the range of thermal loads prevailing in nuclear reactors, a special experimental investigation was set up to determine the influence of heating on friction resistance of a steam-water mixture. The set-up was an open loop fed with supercritical steam ($p = 294$ bar, $t = 650^\circ\text{C}$). The steam-water mixture was produced in a vertical heated tube by throttling the supercritical steam, which was first cooled to a specific heat content. The experimental tube was 1200 mm long, 550 mm of which was heated electrically. Measurements were made of the pressure and temperature at the inlet to the

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L 45628-65

ACCESSION NR: AP5006474

tube, the pressure drop, the thermal load, and the variation of the tube-wall temperature along its length. The pressure was varied between 49 and 196 bar, the mass velocity between 500 and 2000 kg/m²-sec, and the thermal load between 110,000 and 1,700,000 W/m². The results are represented by various plots and in the form of an empirical formula permitting calculation of the friction pressure loss in the region of low steam content. Orig. art. has: 6 figures, 9 formulas, and 1 table.

ASSOCIATION: Vsesoyuznyy teplotekhnicheskii nauchno-issledovatel'skiy institut im. F. E. Dzerzhinskogo (All-Union Heat Engineering Scientific Research Institute)

SUBMITTED: 10Apr64

ENCL: 00

SUB CODE: IE, ME

NR REF SOV: 009

OTHER: 001

b/s
Card 2/2

TARASOVA, N.V.

Changes in heterolactic fermentation produced by the cultivation conditions of *Lactobacterium pentoaceticum* [with summary in English].
Mikrobiologiya 27 no.3:294-301 My-Je '58 (MIRA 11:9)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(LACTOBACILLUS, metabolism

pentoaceticus, hetero-enzymatic lactic acid fermentation (Rus))

(LACTIC ACID, metab.

Lactobacillus pentoaceticus, hetero-enzymatic fermentation (Rus))

TARASOVA, N. V.: Master Biol Sci (diss) -- "Lactic-acid fermentation as a function of the composition of the medium and of aeration". Moscow, 1959. 16 pp (Moscow Order of Lenin and Order of Labor Red Banner State U in M. V. Lomonosov), 130 copies (KL, No 14, 1959, 119)

MIKHLIN, E.D.; TARASOVA, N.V.; RABAYEVA, M.Yu.

Use of molasses and propionic acid bacteria in the production of
vitamin B₁₂. Trudy VNIVI 8:71-79 '61. (MIRA 14:9)

1. Laboratoriya po pererabotke rastitel'nogo syr'ya Vsesoyuznogo
nauchno-issledovatel'skogo vitaminного instituta.
(Propionibacterium) (Molasses) (Cyanocobalamine)

USSR/Farm Animals. - Cattle

Q-2

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26144

Author : Ermasova N.V.

Inst : Not Given

Title : The Composition of Milk of the Red Gorbatoe Breed (Sostev
moloka korov krasnoy gorbatoevskoy porody)

Orig Pub : Sb. n.-i. rabot, Gor'kovsk. obl. opyt. st. zhivotnovodstva.
Vyp. 3. Gor'kiy, knigoizdat, 1956, 71-74

Abstract : Investigation was carried out during a period of two years
(over 300 milk samples) of a group of 17 cows belonging to
the herd of the kolkhoz im. Stalin of the Bogorodskiy Rayon.
The cows under study had 4-5 calvings and their average milk
yield was 2,788 kg. and the average live weight 423 kg. The
mean characteristics of the milk (in %) are as follows: dry
substances 13.68; butterfat 4.34; protein 3.77; lactic sugar
4.68; ash 0.71; Ca 0.169; P 0.263. Density of the milk was
31.3⁰, acidity 17⁰ and calorie value 742 large calories. The
Card : 1/1 milk composition changes according to month.

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SOV/51-5-4-2/21

AUTHORS: Sverdlov, L.M., Borisov, M.G. and Tarasova, N.V.

TITLE: Vibrational Spectra of Unsaturated Hydrocarbons (Kolebatel'nyye spektry napredel'nykh uglevodorodov)
 VI. Calculation and Interpretation of Vibrational Spectra of Butene-1, Pentadiene-1,4 and 1,1-Dimethylallene (VI. Raschet i interpretatsiya kolebatel'nykh spektrov buten-1, pentadiyen-1,4 i 1,1-dimetilallena)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 4, pp 354-364 (USSR)

ABSTRACT: Previous parts were reported in papers given by Refs 1-5. The present paper reports calculations of normal vibrations of the butene-1 molecule which is the second member of a homologous series $RCH=CH_2$. Knowledge of the normal frequencies of butene-1 vibrations is important in thermodynamical calculations. The authors investigated also pentadiene-1,4 and 1,1-dimethylallene in order to find the effect of a second double bond in the carbon chain on the spectra of these molecules. Calculation of normal vibrations followed the method described by Yel'yashevich and Stepanov (Ref 15). Bond lengths and angles were chosen as vibrational coordinates (Figs 1-3). Force constants for butene-1 and pentadiene-1,4 were taken from calculations for propylene (Ref 2) and propane (Ref 15). Several new force constants

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SOV/51-5-4-2/21

Vibrational Spectra of Unsaturated Hydrocarbons. VI. Calculation and Interpretation of Vibrational Spectra of Butene-1, Pentadiene-1,4 and 1,1-Dimethylallene

were determined using a variational method. In the case of 1,1-dimethylallene the authors used force constants of allene (Ref 5) and isobutylene (Ref 1). Tables 1-3 give the vibrational spectra of butene-1, pentadiene-1,4 and 1,1-dimethylallene respectively. The third column in each table gives the calculated frequencies. The fourth and later columns give the observed experimental values. Table 4 gives the interpretation of the fundamentals and harmonics for butene-1. Tables 1-3 show that good agreement was obtained between the calculated and experimentally observed frequencies. Using the results obtained in this paper the authors interpreted Raman spectra of molecules of the $RCH=CH_2$ (from pentene-1 to undecene-1) and diallyl (Tables 5, 6). More precise values of the characteristic frequencies of $RCH=CH_2$ molecules were obtained and the characteristic frequencies of diolefines and dialkyl-derivatives of allene were

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SOV/51-5-4-2/21

Vibrational Spectra of Unsaturated Hydrocarbons. VI. Calculation and Interpretation of Vibrational Spectra of Butene-1, Pentadiene-1,4 and 1,1-Dimethylallene

calculated. There are 3 figures, 6 tables and 21 references, 11 of which are Soviet, 4 American, 2 German, 1 English, 1 French, 1 translation and 1 other.

ASSOCIATION: Saratovskiy avtodorozhnyy institut i vsesoyuznyy avtodorozhnyy zaochnyy institut (Saratov Automobile Institute and All-Union Highway Correspondence Institute)

SUBMITTED: November 16, 1957

Card 3/3 1. Hydrocarbons--Spectra 2. Molecules--Vibration 3. Mathematics
--Applications 4. Roman spectra--Applications

AUTHORS: Sverdlov, L. M., Borisov, M. G., SSU 48-22-2-3, 46
Klochkovskiy, Yu. V., Krasnov, Ye. P., Kukina, V. S.,
Tarasova, N. V.

TITLE: Theory of the Vibration Spectra of Unsaturated Compounds
(Teoriya kolebatel'nykh spektrov nepredel'nykh soedineniy)

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958,
Vol 22, Nr 9, pp 1025 - 1025 (USSR)

ABSTRACT: On the basis of abundant experimental information on
unsaturated compounds the authors tried to generalize
the conclusions drawn from it in two directions.
The determination of the characteristic frequencies
of some structural groups with a double bond and the
observation of the mutual influence of the structural
elements. To solve these problems, normal oscillations
and the constants of the potential energy were computed
by means of the theory of the small vibrations of
polyatomic molecules (Refs 1-2). Partial results of
these computations have been published already before
(Ref 3). The basic results of the present paper can be condensed

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Theory of the Vibration Spectra of Unsaturated Compounds SOV/48-22-3-3/46

as follows: The substitution of the hydrogen atoms by alkyl radicals in ethylene leaves the field of the remaining ethylene groups as well as the field of the alkyl radicals almost unchanged. The geometrical distribution of the alkyl radicals with respect to the double bond plays an essential role with regard to the spectrum. The calculations show that in the case of two double bonds that are separated by at least two single bonds the former ones exert almost no influence on each other. On the basis of the computation of the oscillation frequency of cyclopentene the spectrum of the molecule combination dispersion was for the first time interpreted with success. The frequencies and the force constants of some bromine-, chlorine-, and fluorine-substituents of ethylene were computed theoretically. Because of comprehensive data on the spectra of the deuterio-substituted molecules it was possible to carry out an exact computation of the force constants. The good agreement between the computed and the observed frequencies proves the correctness of the whole system of constants. Compared with the halogen

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Theory of the Vibration Spectra of Unsaturated Compounds SOV/48-22-9-3/40

substituents of saturated hydrocarbons the stability of the C-Br-, C-Cl-, and C-F-bonds in unsaturated compounds is somewhat higher. For the first time

$\frac{\partial P_i}{\partial Q_j}$ was computed in the first approximation of the optical valence scheme. On this occasion μ_{CH} and μ'_{CH}

had, as expected, the same values for the oscillations of all types of symmetry. Thus the calculation has shown that the optical valence scheme only in first approximation is applicable to the computation of the intensities in infrared spectra. There are 4 references, 3 of which are Soviet.

ASSOCIATION: Saratovskiy avtodorozhnyy institut (Saratov Highway Institute); Vsesoyuznyy avtodorozhnyy zaochnyy institut (All-Union Highway Institute for Correspondence Courses)

Card 3/4

CHUMAK, M.D.; TARASOVA, N.V.; BLOKHINA, T.P.

Qualitative composition of organic acids formed during glucose
fermentation by pressure-resistant bacteria. Mikrobiologiya 33
no.4:565-568 J1-Ag '64. (MIRA 18:3)

1. Institut mikrobiologii AN SSSR.

BEKHTEREVA, M.N.; TARASOVA, N.V.; KHIZHANOVSKAYA, V.E.

Production of alcohols and acids from glycerol by the culture
of *Actinomyces violaceus* strain 719. Mikrobiologiya 34 no.5:
773-780 S-O '65. (MIRA 18:10)

1. Institut mikrobiologii AN SSSR.

MOSKOVSKIY, A.S., otv. red.; DOKUCHAYEV, G.A., red.; POZNANSKIY,
V.S., red.; TARASOVA, N.V., red.

[Siberia during the period of the building of socialism
and transition to communism] Sibir' v period stroitel'stva
sotsializma i perekhoda k kommunizmu. Novosibirsk, Red.-
izd. otдел Sibirskogo otd-niya AN SSSR. No.3. 1964. 106 p.
(MIRA 18:9)

VASIL'YEV, V.G., kand.tekhn.nauk, dots.; KONDRATENKO, A.I., inzh.;
LOMAKIN, V.P., inzh.; TARASOVA, N.Ya., inzh.

Use of an electronic model in the study of the electric
drive of the EVG-15 excavator. Elektrichestvo no.6:39-41
Je '60. (MIRA 13:7)

1. Khar'kovskiy politekhnicheskii institut im.Lenina.
(Electric driving)
(Excavating machinery—Electric driving)

TARASOVA, N.Ye.

TARASOV, P.P.; TARASOVA, N.Ye.

Particular infestation of pestiferous tarbagans by fleas and the
epizootological significance of this fact. Izv. Irk.gos.protyvochum.
inst. 8:145-150 '50. (MIRA 10:12)

(FLEAS AS CARRIERS OF DISEASE) (PLAGUE)
(MARMOTS--DISEASES AND PESTS)

TARASOVA, O.T., kandidat meditsinskikh nauk

Conditioning preschool children with cold water baths and its
hygienic effectiveness. Gig. i san., 21 no.7:30-34 J1 '56.

(MIRA 9:9)

1. Iz kafedry shkol'noy gigiyeny Mosk. pedagog. instituta im.
V.I.Lenina

(BALNEOLOGY

cold water baths, reaction of various types of child.)

(COLD, eff.

same)

TARASOVA, Ol'ga Titovna; SVADKOVSKIY, I.F., red.; VOLKOVA, Ye.I.,
red.; VOZNETSOVA, L.N., red.; MARKOVA, T.A., red.;
MIKHAYLOVA, L.V., red.; PANFILOVA, T.S., red.; SLAVINA,
L.S., red.; ZAGIK, L.V., red.; GARNEK, V.P., tekhn. red.

[How to protect children from common colds] Kak uberech'
detei ot prostudy. Moskva, Izd-vo APN RSFSR, 1963. 15 p.
(MIRA 16:12)

TARASOVA, Ol'ga Titovna; NEYMAN, H.I., pod.

[How to protect children from colds; advice to parents]
Tak oberegaiut detei ot prostudy; sovety roditeliam. Mo-
skva, "Meditsina," 1964. 26 p. (MIRA 17:5)

TARASOVA, O.V.; PANEVATOV, M.A., prof., nauchnyy rukovoditel' raboty.

Effect of bromine on the extinction of a conditioned motor
reflex. Uch. zap. Ped. inst. Gerts. 239:117-122 '64.

(MIRA 18:3)

SMOLYANSKAYA, A.Z.; TARASOVA, O.V.

Viability of *Mycobacterium tuberculosis* from the tuberculosis
foci in incised lung sections. Lab.delo 7 no.11:3-5 N '61.
(MIRA 14:10)

1. Moskovskaya gorodskaya tsentral'naya klinicheskaya tuberku-
leznaya bol'nitsa.
(TUBERCULOSIS) (VITALITY)

TALASOVA, P. I.

TALASOVA, P. I. "The quality of milk marketed in the city of Smoleensk",
Trudy Smol. gos. univ. in-na, Vol. II, 1948, p. 66-70.

SO: U-4393, 17 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

PUDOVIK, A.N.; TARASOVA, R.I.; BULGAKOVA, R.A.

Reactions of sodium diethyl thiophosphite with haloallyl
compounds. Zhur. ob. khim. 33 no.8:2560-2563 Ag '63.
(MIRA 16:11)

1. Kazanskiy gosudarstvennyy universitet.

PUDOVIK, A.N.; TARASOVA, R.I.

Reactions of di- and triarylhalomethanes with salts of phosphinic,
phosphorothioic, and phosphorodithioic acids. Zhur.ob.khim. 34 no.1:
293-298 Ja 64. (MIRA 17:3)

1. Kazanskiy gosudarstvennyy universitet.

L 52791-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM

ACCESSION NR: AP5016187

UR/0079/64/034/012/3946/3949

AUTHOR: Pudovik, A. N.; Tarasova, R. I. 28

TITLE: Reactions of carboxylic acid chlorides with salts of diethylthiophosphorous and phosphinous acids

SOURCE: Zhurnal obshchey khimii, v. 34, no. 12, 1964, 3946-3949

TOPIC TAGS: organic phosphorus compound, ester, phosphinic acid, phosphoric acid, carboxylic acid, chloride

Abstract: The reaction of acetyl chloride with sodium diethylthiophosphite results in the production of the diethyl ester of acetothiophosphinic acid and diethyl- α -(diethylthiophosphone)ethylthiophosphate. The reactions with propionyl chloride proceed analogously. When sodium diethylthiophosphite is added to excess acetyl chloride, in addition to the diethyl ester of acetothiophosphinic acid, a certain amount of methyldi-(diethylthiophosphane)carbinol acetate is formed. The latter compound was also synthesized by the reaction of acetyl chloride with methyldi-(diethylthiophosphane)carbinol produced in the reaction of acetothiophosphinic ester with diethylthiophosphinic acid in the presence of triethylamine.

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L 52791-65

ACCESSION NR: AP5016187

The reaction of acetyl chloride with the sodium salt of the ethyl ester of ethylphosphinic acid leads to the formation of the ethyl-alpha-(ethylethoxyphosphone)ethyl ester of ethylphosphinic acid. An analogous reaction of propionyl chloride with the sodium salt of the ethyl ester of ethylphosphinic acid results in the formation of the ethyl ester of ethylpropionylphosphinic acid and the ethyl-alpha-(ethylethoxyphosphone)propyl ester of ethylphosphinic acid. The structures of the reaction products were confirmed by studies of their infrared spectra, Orig. art. has 4 formulas and 1 graph.

ASSOCIATION: none

SUBMITTED: 12Oct63

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 001

OTHER: 000

JPRS

Card 2/2

~~██████~~ O.A.; SOSNOVSKIY, G.N.; RYZHOVA, V.V.; TARASOVA, R.S.

Use of activated coal for the purification of cadmium electrolyte from impurities. TSvet.met. 34 no.9:51-56 S '61. (MIRA 14:10)

1. Altayskiy gorno-metallurgicheskiy institut AN KazSSR (for Khan, Sosnovskiy). 2. Leninogorskiy polimetallicheskiy kombinat (for Ryzhova, Tarasova).

(Cadmium—Electrometallurgy)

PUDOVIK, A.N.; TARASOVA, R.I.

Reactions of carboxyl chlorides with salts of diethylthiophosphorous
and phosphinous acids. Zhur. ob. khim. 34 no.12:3946-3949 D '64
(MIRA 18:1)

TARASOVA, R. Ya.

Innervation of the trachea. Trudy gos.nauch.-issl.inst.ukha,
gorla i nosa. 6:178-182 '55. (MIRA 12:10)

1. Iz otdela morfologii (zav. - prof.G.F.Ivanov) Gosudarstvennogo
nauchno-issledovatel'skogo instituta ukha, gorla i nosa.
(TRACHEA--INNERVATION)

TARASOVA, R.Ye.

Late results of fenestration surgery on the labyrinth in
otosclerosis. Trudy gos. nauch.-issl. inst. ukha, gorla
i nosa no.11:283-291 '59. (MIRA 15:6)

1. Iz klinicheskogo otdeleniya Gosudarstvennogo nauchno-issledova-
tel'skogo instituta ukha, gorla i nosa.
(LABYRINTH (EAR)--SURGERY)
(OTOSCLEROSIS)

YEROFEYEV, L.A.; TARASOVA, R.Ye.

Study of thyroid gland function using radioactive iodine (I^{131}) in patients with otosclerosis. Vest. otorin. 25 no.5:48-50 S-O '63. (MIRA 17:4)

1. Iz kafedry meditsinskoy radiologii (zav. - prof. V.K.Modestov) TSentral'nogo instituta usovershenstvovaniya vrachey i Nauchno-issledovatel'skogo instituta bolezney ukha, nosa i gorla (dir. - prof. N.A.Bobrovskiy), Moskva.

TARASOVA, S. A.

Cand Chem Sci

Dissertation: "Mechanism of heptane aromatization in the Presence of
Vanadium Catalyst" 27/11/50

Inst of Organic Chemistry, Acad Sci USSR

SO Vecheryaya Moskva
Sum 71

PLATE, A. F. AND TARASOVA, S. A.

Vanadium

Mechanism of contact transformations of hydrocarbons on a vanadium catalyst. Part 7, Comparative behavior of binary mixtures of heptane, heptane and toluene. Zhur. ob. khim. 22 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953/2 Unclassified.

VECHTOMOV, M.I., inzh.; KUDRYAVTSEV, V.A., inzh.; MALKES, D.A., inzh.;
OSTROVSKIY, G.I.; POVERENNIY, L.D.; SUSHKOV, P.M., inzh.;
TYULENEV, K.Z., inzh. Primali uchastiye: Galyanova, N.S., inzh.;
PUTEYeva, N.P.; IZRAYLOVICH, Ye.A., inzh.; MARCHENKO, G.A., inzh.;
MALYGINA, Z.S.; SOKOLOVA, Ye.A.; SOKOV, V.N., inzh.; TARASOVA,
S.N.; TASHAYEV, A.L., inzh.; FILIMONOV, S.V.; DRALICH, K.F., inzh.,
nauch. red.; NOVITCHENKO, K.M., inzh., nauchnyy red.; SIMAKOV,
S.N., inzh., nauchnyy red.; FAKTOROVICH, Yu.A., kand. tekhn. nauk,
nauchnyy red.; STUPIN, Ye.N., otv. red.; LUTOV, N.S., red.;
IVANOV, V.S., red.; BAGUZOV, N.P., glav. red.; VOLCHEGORSKIY, M.S.,
zam. glav. red.; DOBRYNIN, S.N., red.; NAZAROV, I.A., red.;
KOLESNIKOV, S.I., red.; MEL'NIKOV, N.P., red.; SUSNIKOV, A.A., red.;
STAROVEROV, I.G., red.; LYTKINA, L.S., red. izd-va; GORDEYEV, P.A.,
red. izd-va; OSENKO, L.M., tekhn. red.

[Handbook for the designer of industrial, residential, and public
buildings and structures; organization of construction and execu-
tion of building and assembly operations. Industrial construc-
tion] Spravochnik proektirovshchika promyshlennykh, zhilykh i
obshchestvennykh zdaniy i sooruzheniy; organizatsiya stroitel'-
stva i proizvodstvo stroitel'no-montazhnykh rabot. Promyshlen-
noe stroitel'stvo. Pod red. P.M.Sushkova. Moskva, Gos.izd-vo
lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 372 p.
(MIRA 15:2)

(Industrial buildings)

TARASOVA, S.V.

Developing new techniques in the bast fiber industry. Tekst.prom.15
no.3:10-12 Mr '55. (MIRA 8:4)
(Textile industry) (Bast)

TARASOVA, T., inzh.

Urgent problems. Pozh.delo 9 no.10:6-7 0 '63. (MIRA 16:12)

KARNAUKHOV, N. M.; TARASOVA, T. B.

Deficiencies of EKS-1250 electric separators. TSvet. met. 35
no.10:84-85 0 '62. (MIRA 15:10)

(Electrostatic separators)

TARASOVA, T.D.

CHALAYA, L.Ye., TARASOVA, T.D.

The role of *Lamblia* in the etiology of chronic intestinal disturbances in small children [with summary in English]. Med. paraz. i paraz. bol. 27 no.2:176-182 Mr-Apr '58 (MIRA 11:5)

1. Iz Instituta malyarii, meditsinskoy parazitologii i gel'mintologii Ministerstva zdavookhraneniya SSSR (dir. - prof. P.G. Sefiyev) i yasley No.35 Frunzenskogo rayona Moskv.

(GIARDIASIS, in infant & child

causing chronic intestinal disord. (Rus))

(GASTROINTESTINAL DISEASES,

chronic intestinal disord. in inf. & child. caused by recurr. infestation with *Giardia* (Rus))

20
L 23846-65 EMT(m)/EMP(w)/EPF(n)-2/EMA(d)/EPR/T/EMP(t)/EAP(b) Pad/Ps-h/Pu-h LJP(e)
ACCESSION NR: AT4045671 JD/WW/HW/JG S/2680/64/000/022/0039/0061

AUTHOR: Agafonov, A. K.; Aleksakhin, I. A.; Pokrovskaya, G. N.; Puchkov, B. I.; Rogel'berg, I. L.; Tarasova, T. F.; Muzhnov, A.D. (Deceased) 71/81

TITLE: Thermoelectromotive force of binary solid solutions on a Ni-base 21

SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy*, no. 22, 1964. Issledovaniye splavov dlya termopar (Studying alloys for thermocouples), 39-61

TOPIC TAGS: thermoelectromotive property, binary solid solution, nickel, aluminum, beryllium, cobalt, chromium, copper, iron, germanium, magnesium, manganese, molybdenum, niobium, rhenium, silicon, tantalum, titanium, vanadium, tungsten, zirconium, oxidation resistance

ABSTRACT: Many alloys used for the production of thermocouples have a Ni base and, therefore, their thermoelectric properties are of considerable interest. Ni alloys with Al, Be, Co, Cr, Cu, Fe, Ge, Mg, Mn, Mo, Nb, Re, Si, Ta, Ti

Cord 1/2

L 23816-65
ACCESSION NR: AT4045671

V^{27} , W^{27} and Zr^{27} were tested. Specimens consisted of 300 g ingots having a diameter of 18 mm. An argon induction furnace was used and a magnesite crucible. Ingots with a low content of additives were cold-rolled into 5.3 mm rods and cold-roll specimens with a high content of the second component were subjected to intermediate quenching from 1200C. The rods were annealed for two hours at 1000C and the thermoelectromotive force measured within a temperature range of 0 to 1200C. Most tested elements enhanced the thermoelectromotive force of Ni and 15 to 17% Mo, 6.5% Co and 19 to 20% W had a conspicuous effect. Elevated temperature accelerated the effect and low temperature slowed it down considerably. The only exceptions were Al, Be and Cu: these elements lowered the thermoelectromotive force. Many systems displayed an extremum in solid solutions with Cr, Co, Al, Si, Co, etc. Orig. art. has: 36 figures and 3 tables

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut obrabotki tsvetnykh metallov, Moscow (State Scientific Research and Planning Institute for the Processing of Nonferrous Metals)
SUBMITTED: 00 ENCL: 00 SUB CODE: MM, EM

NR REF SOV: 008
Card 2/2

OTHER: 009

L 32262-65 EPF(n)-2/EPR/EPA(s)-2/EWT(m)/EPA(bb)-2/EWP(b)/EWA(d)/EWP(t) Ps-4/
 Pt-10/Pu-4/Pad IJP(c) WW/JD/HW/JG/WB
 ACCESSION NR: AT4045672 S/2880/64/000/022/0062/0071

AUTHOR: Nuzhnov, A.G. (Deceased); Pckrovskaya, G.N.; Puchkov, B.I.; Rogel'berg,
I.L.; Tarasova, T.F.

TITLE: Thermoelectromotive force of binary solid solutions on a cobalt base

SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
 institut splavov i obrabotki tsvetnykh metallov. Trudy*, no. 22, 1964. Issledo-
 vaniye splavov dlya termopar (Studying alloys for thermocouples), 62-71

TOPIC TAGS: cobalt, aluminum, beryllium, chromium, copper, iron, germani-
 um, manganese, niobium, nickel, silicon, tantalum, titanium, vanadium, tungs-
 ten, molybdenum, zirconium, binary solid solution, thermoelectromotive force,
 cobalt based solution

ABSTRACT: The authors investigate the thermoelectromotive force of Co solid
 solutions in the quest for alloys that would be suitable for the production of therm-
 ocouples. Specimens contained up to 4% Co and Al, 1.5% Be, 25% Cr, 5% Cu,

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L 32262-65

ACCESSION NR: AT4045672

40% Fe, 5% Ge, 40% Mn, 5% Nb, 10% Ni, 20% Re, 5% Si, 10% Ta, 6% Ti, 15% Va, 13% W, 10% Mo and 2% Zr. Testing temperatures varied between 100 and 1200 C. The changes in the thermoelectromotive force were found to become increasingly complex as the concentration of the dissolved component was increased and that accurate observations required the measurement of the thermoelectric properties in a state of equilibrium. With heightened concentration of the solid solution, the thermoelectromotive force was observed to decline. In Co alloys having low solubility components such as Cu, Zr and Be, the increased concentration of the alloying element brought about an initial decrease and subsequently a slight increase of the thermoelectromotive force. Only Co-Cr alloys containing over 20% Cr were found suitable for the positive electrode. These alloys possess a satisfactory thermoelectromotive force and earlier investigations show them to be sufficiently oxidation-resistant. Orig. art. has: 16 figures

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov, Moscow (State Scientific Research and Design Institute for Alloys and Processing of Nonferrous Metals)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 005

Card 2/2

L 23848-65 EWT(m)/EWA(d)/EWP(t)/EWP(b) Pad IJP(c) MJW/JD/HW/WB
ACCESSION NR: AT4045673 S/2680/64/000/022/0101/0114

AUTHOR: Nuzhnov, A. G. (Deceased); Pokrovskaya, G. N.; Puchkov, B. I.;
Rogel'berg, I. L.; Tarasova, T. F.

TITLE: Investigation of Alumel and Chromel alloys with cobalt additions
18 18 27

SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy*, no. 22, 1964. Issledovaniye splavov dlya termopar (Studying alloys for thermocouples), 101-114

TOPIC TAGS: Chromel, Alumel, Co, Mn, Ni, Cr, oxidation resistance, thermal emf

ABSTRACT: The decline of the production of Chromel and Alumel couples in recent years initiated an investigation of the thermoelectromotive properties of these alloys with Co additions. The stability, oxidation rate and changes in the thermoelectromotive force under the effect of oxidation were observed in Ni(N-1) Cr(KhO) Si(Kr1) Al(A00) and Mn(Mr1) alloy wire rods having a diameter of 3.2 and 1.2 mm. Co additions were found to lower the thermoelectromotive force of Chromel and Alumel, their thermoelectric properties becoming more linear and approximating the norms set by State Standards (GOST) 1790-63. (see figs. 1 &

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ACCESSION NR: AT4045673

2 of enclosure). Therefore, Co is a suitable regulator of the thermoelectric properties of both alloys. Oxidation resistance of Chromel and its working properties were substantially improved and those of Alumel to a lesser extent by Co additions. All specimens were endowed with improved stability and the thermoelectromotive force of couples approximated the norms set by State Standards 3044-61. Orig. art. has: 7 figures and 3 tables

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut obrabotki tsvetnykh metallov, Moscow (State Scientific Research and Planning Institute for the Processing of Nonferrous Metals)

SUBMITTED: 00

ENCL: 04

SUB CODE: MM, E M

NR REF SOV: 005

OTHER: 001

Card 2/6

L 32263-65 EPR/EWT(m)/EWP(b)/T/EWA(d)/EWP(w)/EWP(t) Ps-4/Pad IJP(c) MJW/

JD/HW

ACCESSION NR: AT4045674

S/2680/64/000/022/0115/0128

AUTHORS: Nuzhmov, A.G. (deceased); Pokrovskaya, G.N.; Puchkov, B.I.; Rogel'berg, I.L.; Tarasova, T.F.

TITLE: Investigation of the effect of composition on the thermoelectromotive force of an "NK" alloy

SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy*, no. 22, 1964. Issledovaniye splavov dlya termopar (Studying alloys for thermocouples), 115-128

TOPIC TAGS: alloy composition, NK alloy, Co, Mn, Al, Si, Ni, Fe, Mg, Cu, thermoelectromotive force

ABSTRACT: The investigated NK alloy contained 15 to 20% Co, approximately 2% Mn and Al, 1% Si and Ni. Serious difficulties arose in melting this alloy in industrial furnaces because of an inability to control its electromotive properties. The authors continued experiments on the basis of earlier findings. The effect of the basic components as well as of Fe, Cu and Mg was observed within the 100 to 1000 °C range. Al and Si additions proved beneficial for

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L 32263-65
ACCESSION NR: AT4045674

thermoelectromotive control of the specimens during melting while the Mn and Co content was maintained on a constant level. At high temperatures, an increase in the Co contents enhanced the thermoelectromotive force. The suggested optimal composition is 1.8 to 2.1% Al, 0.9 to 1.1% Si, 16.5 to 17.5% Co and 1.9 to 2.1% Mn. The orig. art. has: 13 figures and 2 tables.

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov, Moscow (State Scientific Research and Design Institute for Alloys and Processing of Nonferrous Metals)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO REF SOV: 004

OTHER: 000

Card

2/2

L 45063-65 EWT(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) Pad IJP(c) MJW/JD/ILH
 5/0277/65/000/001/0024/0024

ACCESSION NR: AR5008957

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktssi i raschet
 detaley mashin. Otd. vyp., Abs. 1.48.117

AUTHOR: Nuzhnov, A. G.; Pokrovskaya, G. N.; Puchkov, B. I.; Rogel'berg, I. L.;
Tarasova, T. E.

TITLE: A study of the relationship of the thermoelectromotive force to
 composition in NK alloy

CITED SOURCE: Tr. Gos. n.-i. i proyekt. in-ta splavov i obrabotki tsvetn.
 met., vyp. 22, 1964, 115-128

TOPIC TAGS: alloy thermoelectromotive force, alloy composition, thermocouple,
 nickel alloy, cobalt alloy, NK alloy

TRANSLATION: NK alloy is designated for the manufacture of the thermoelectrodes
 used in thermocouples. The alloy contains 12-20% Co, about 2% Mn and Al, and
 about 1% Si; the remainder is Ni. L. Gomofov

SUB CODE: MM

ENCL: 00

Card 1/1

L 23849-65 EWT(1)/EWG(k)/EWT(m)/EWA(d)/EPR/EMP(t)/EEC(b)-2/EMP(b) Pz-6/Ps-4
 ACCESSION NR: AT4045675 IJP(c) MJW/JD/S/2680/64/000/022/0129/0142 30
 AT 36

AUTHOR: Nuzhnov, A. G. (Deceased); Pokrovskaya, G. N.; Pushkov, B. I.; Rogel'berg, I. L.; Tarasova, T. F. BT/

TITLE: Investigation of the effect of the composition of an "CA" alloy on the thermoelectromotive force

SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy*, no. 22, 1964. Issledovaniye splavov dlya termopar (Studying alloys for thermocouples), 129-142

TOPIC TAGS: aluminum, silicon, manganese, thermoelectromotive force
 27 27 27

ABSTRACT: The effect of Si, Al and Mn on the thermoelectromotive force of the Al₂Si₂ type alloy "CA" was investigated. Unlike Al₂Si₂, the Al contents in the "CA" alloy is higher (up to 3.5%) and the Mn contents lower (less than 2%). All tests were conducted within a 100 to 1000C temperature range. All three components lowered the thermoelectromotive force of the tested alloy. The effect of Mn was found to be independent of the concentration of the two other components.

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L 23849-65

ACCESSION NR: AT4045675

An efficient adjustment of the electromotive force calls for the maintenance of an invariable Mn level of 1.4% during the melting of the alloy while Al and Si are added. The electromotive force rose sharply above 12 mv when Mn quantities were higher and the Si and Al contents was 1.1% and 3.3% respectively. As a rule, the Al contents in that alloy exceeds 2.8% and increasing concentrations lower the thermoelectromotive force. The lowering effect of Si is more appreciable within the 400 to 1000C range when the alloy has a high Al content. The effect of the composition on the thermoelectromotive force may serve as a basis for the production process of "CA" alloys. Orig. art. has: 12 figures and 2 tables

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut obrabotki tsvetnykh metallov, Moscow (State Scientific Research and Planning Institute for the Processing of Nonferrous Metals)

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, EM

NR REF SOV: 004

OTHER: 000

Card 2/2

L 60216-65 EWT(d)/EWT(1)/EWT(m)/EPF(n)-2/EWA(d)/EWP(v)/EPR/EWP(t)/ENP(k)/ENP(h)/
ENP(b)/ENP(1)/ENA(h) Pz-6/Pf-4/Ps-4/Peb/Pu-4 IJP(c) JD/KW/JG/AT
ACCESSION NR: AP5019064 UR/0286/65/000/012/0089/0089

AUTHORS: Gil'dengorn, I. S.; Nuzhnov, A. G.; Pigidina, E. M.; Pokrovskaya, G. N.;
Puchkov, B. I.; Rogel'berg, I. L.; Tarasova, T. P.

TITLE: Thermocouple, Class 42, No. 172087, 6

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 89

TOPIC TAGS: thermocouple, precious metal, oxidizing medium, nickel, silicon,
niobium, cobalt, manganese, carbon, magnesium, zirconium, calcium, lanthanum,
cerium, boron, electrode

ABSTRACT: This Author Certificate presents a thermocouple based on precious metals
and intended for use in oxidizing media. To increase its longevity at temperatures
up to 1300C, the negative electrode is made of nickel with 2.5-7.0% of silicon and
1.5-5.0% of aluminum, while the positive electrode is made of a nickel alloy with
8-11% of chromium and 2-4% of silicon. Silicon may be fully or completely re-
placed by niobium. The electrode alloys may also be augmented with (singly or
jointly) cobalt and manganese (up to 1%), zirconium (up to 0.2%), carbon and mag-
nesium (up to 0.15%), calcium and lanthanum (up to 0.1%), cerium and boron (up to
0.01%).

Card 1/2

L 60216-65

ACCESSION NR: AP5019064

ASSOCIATION: Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
splavov i obrabotki tsvetnykh metallov (State Scientific Research Institute of
Alloys and Nonferrous Metals Treatment)

SUBMITTED: 25Mar64

ENCL: 00

SUB CODE: IE, MM

NO REF SOV: 000

OTHER: 000

Card 2/2

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